

**IN THE CLAIMS:**

Please cancel claims 4-6 and 9-17 without prejudice to pursue the subject matter of these claims in a continuation application to be filed in the future. Please amend claims 1-3 as follows:

- C37  
Sub D1
- 1. (amended) A monoclonal antibody which recognizes and binds an N-terminal portion of a Prostate Stem Cell Antigen (PSCA) protein consisting of amino acids 2 through 50 or a portion thereof as described in SEQ ID NO:2 . --
- 2. (amended) A monoclonal antibody which recognizes and binds a middle portion of a Prostate Stem Cell Antigen (PSCA) protein consisting of amino acids 46 through 109 or a portion thereof as described in SEQ ID NO:2 . --
- 3. (amended) A monoclonal antibody which recognizes and binds a C-terminal portion of a Prostate Stem Cell Antigen (PSCA) protein consisting of amino acids 85 through 123 or a portion thereof as described in SEQ ID NO:2 . --

Please add new claims 18-35 as follows:

- 126 67  
C38  
Sub D2
- 18. (new) The monoclonal antibody of claim 1, 2, or 3 which is a chimeric antibody. --
- 69  
--19. (new) The monoclonal antibody of claim 18, wherein the chimeric antibody comprises a murine immunoglobulin variable region and a human immunoglobulin constant region. --
- 71  
--20. (new) The monoclonal antibody of claim 1, 2, or 3 which is a human antibody. --
- 71  
--21. (new) The monoclonal antibody of claim 20, wherein the human antibody comprises a human immunoglobulin constant region. --

<sup>73</sup>  
~~--22.~~ (new) The monoclonal antibody of claim 1, 2, or 3 which is internalized by a cell expressing Prostate Stem Cell Antigen (PSCA). --

<sup>74</sup>  
~~--23.~~ (new) A hybridoma which produces the monoclonal antibody of claim 1, 2, or 3. --

<sup>75</sup>  
~~--24.~~ (new) A fragment of the monoclonal antibody of claim 1, 2, or 3 which is selected from a group consisting of Fab, F(ab')<sub>2</sub>, and Fv. --

<sup>76</sup>  
~~--25.~~ (new) A recombinant protein comprising the antigen binding region of the monoclonal antibody of claim 1, 2, or 3. --

<sup>77</sup>  
~~--26.~~ (new) An immunotoxin comprising the recombinant protein of claim <sup>76</sup>~~25~~ conjugated with a therapeutic agent. --

<sup>78</sup>  
~~--27.~~ (new) The immunotoxin of claim <sup>77</sup>~~26~~, wherein the therapeutic agent is a radioactive isotope. --

<sup>79</sup>  
~~--28.~~ (new) The immunotoxin of claim <sup>76</sup>~~27~~, wherein the radioisotope is selected from a group consisting of <sup>212</sup>Bi, <sup>131</sup>I, <sup>131</sup>In, <sup>90</sup>Y and <sup>186</sup>Re. --

<sup>80</sup>  
~~--29.~~ (new) The immunotoxin of claim <sup>77</sup>~~26~~, wherein the therapeutic agent is a cytotoxic agent. -

<sup>81</sup>  
~~--30.~~ (new) The immunotoxin of claim <sup>80</sup>~~29~~, wherein the cytotoxic agent is selected from a group consisting of ricin, ricin A-chain, doxorubicin, daunorubicin, taxol, ethiduum bromide, mitomycin, etoposide, teniposide, vincristine, vinblastine, colchicine, dihydroxy anthracin dione, actinomycin D, diphtheria toxin, *Pseudomonas* exotoxin (PE) A, PE40, abrin, arbrin A chain, modeccin A chain, alpha-sarcin, gelonin, mitogellin, retstrictocin, phenomycin, enomycin, curicin, crotin, calicheamicin, sapaonaria officinalis inhibitor, and glucocorticoid. --

82  
--31. (new) An immunoconjugate comprising the antibody of claim 1, 2, or 3 conjugated with a therapeutic agent. --

83  
--32. (new) The immunoconjugate of claim 31, wherein the therapeutic agent is a radioactive isotope. --

84  
--33. (new) The immunoconjugate of claim 32, wherein the radioisotope is selected from a group consisting of  $^{212}\text{Bi}$ ,  $^{131}\text{I}$ ,  $^{131}\text{In}$ ,  $^{90}\text{Y}$  and  $^{186}\text{Re}$ . --

C38 85  
--34. (new) The immunoconjugate of claim 31, wherein the therapeutic agent is a cytotoxic agent. --

Sub D 86  
--35. (new) The immunoconjugate of claim 34, wherein the cytotoxic agent is selected from a group consisting of ricin, ricin A-chain, doxorubicin, daunorubicin, taxol, ethidum bromide, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicine, dihydroxy anthracin dione, actinomycin D, diptheria toxin, *Pseudomonas* exotoxin (PE) A, PE40, abrin, arbrin A chain, modeccin A chain, alpha-sarcin, gelonin, mitogellin, retstrictocin, phenomycin, enomycin, curicin, crotin, calicheamicin, sapaonaria officinalis inhibitor, and glucocorticoid. --